

<b>Attorney Docket Number</b>	3382-67640-01
<b>Application Number</b>	10/816,466
<b>Filing Date</b>	March 31, 2004
<b>First Named Inventor</b>	Wang
<b>Art Unit</b>	2641
<b>Examiner Name</b>	Michael N. Opsasnick

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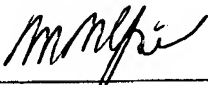
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Examiner's Initials*	Cite No. (optional)	Number	Date	Name of Applicant or Patentee
MW		7,117,156	10-2006	Kapilow

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Examiner's Initials*	Cite No. (optional)	Number	Date	Name of Applicant or Patentee	
MO		5,699,485	12-1997	Shoham	
		5,819,212	10-1998	Matsumoto et al.	
		6,952,668	10-2005	Kapilow	
		7,003,448	02-2006	Lauber et al.	
		2002/0097807	07-2002	Gerrits	
		2005/0075869	04-2005	Gersho et al.	
		2006/0271354	11-2006	Sun et al.	
		2006/0271355	11-2006	Wang et al.	
		2006/0271373	11-2006	Khalil et al.	

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## **U.S. PATENT DOCUMENTS**

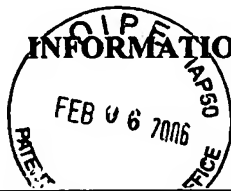
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Examiner's Initials*	Cite No. (optional)	Number	Issue Date	Name of Applicant or Patentee
ms		5,870,412	02-1999	Schuster et al.
ms		5,873,060	02-1999	Ozawa
ms		6,009,122	12-1999	Chow
ms		6,128,349	10-2000	Chow
ms		6,263,312	07-2001	Kolesnik et al.
ms		6,408,033	06-2002	Chow et al.
ms		6,647,063	11-2003	Oikawa
ms		6,732,070	05-2004	Rotola-Pukkila et al.
ms		6,757,654	06-2004	Westerlund et al.

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Examiner's Initials*	Cite No. (optional)	Number	Issue or Publication Date	Name of Applicant or Patentee
<i>mo</i>		4,815,134	Mar-89	Picone et al.
		4,969,192	Nov-90	Chen et al.
		5,255,399	Oct-93	Fette et al.
		5,394,473	Feb-95	Davidson
		5,664,051	Sep-97	Hardwick et al.
		5,668,925	Sep-97	Rothweiler et al.
		5,699,477	Dec-97	McCree
		5,717,823	Feb-98	Kleijn
		5,734,789	Mar-98	Swaminathan et al.
		5,751,903	May-98	Swaminathan et al.
		5,778,335	Jul-98	Ubale et al.
		5,890,108	Mar-99	Yeldener
		6,108,626	Aug-00	Cellario et al.
		6,134,518	Oct-00	Cohen et al.
		6,199,037	Mar-01	Hardwick
		6,202,045	Mar-01	Ojala et al.
<i>m</i>		6,240,387	May-01	DeJaco

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<i>Mo</i>		6,310,915	Oct-01	Wells et al.
<i> </i>		6,311,154	Oct-01	Gersho et al.
<i> </i>		6,351,730	Feb-02	Chen
<i> </i>		6,385,573	May-02	Gao et al.
<i> </i>		6,493,665	Dec-02	Su et al.
<i>↓</i>		6,823,303	Nov-04	Su et al.
<i>Mo</i>		2001/0023395	Sep-01	Su et al.

## FOREIGN PATENT DOCUMENTS

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
<i>Mo</i>		Canada	CA 1,336,454	Jul-95	Voicecraft, Inc.
<i> </i>		Europe	EP 0 503 684	Sep-92	Voicecraft, Inc.
<i> </i>		France	FR 2 784 218	Apr-00	Thomson CSF
<i> </i>		Great Britain	GB 2 324 689	Oct-98	Hardwick
<i> </i>		Japan	JP 1013200 (abstract)	Jan-89	Boisukurafuto Inc
<i>↓</i>		WIPO	WO 00 11655	Mar-02	Conexant Systems, Inc.
<i>Mo</i>		WIPO	WO 98 27543	Jun-98	Interval Research Corporation

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MO		B. Bessette, R. Salami, C. Laflamme and R. Lefebvre, "A Wideband Speech and Audio Codec at 16/24/32 kbit/s using Hybrid ACELP/TCX Techniques," in Proc. IEEE Workshop on Speech Coding, pp. 7-9, 1999.
		Chen et al., "Adaptive Postfiltering for Quality Enhancement of Coded Speech," IEEE Transactions on Speech and Audio Processing, Vol. 3, No. 1, pp. 59-71 (1995).
		J-H. Chen and D. Wang, "Transform Predictive Coding of Wideband Speech Signals," in Proc. International Conference on Acoustic, Speech, Signal Processing, pp. 275-278, 1996.
		COMBESCURE, P., et al., "A16, 24, 32 kbit/s Wideband Speech Codec Based on ATCELP," <i>In Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , Vol. 1, pp. 5-8 (March 1999).
		EL MALEH, K., et al., "Speech/Music Discrimination for Multimedia Applications," <i>In Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , Vol. 4, pp. 2445-2448, (June 2000).
		ELLIS, D., et al. "Speech/Music Discrimination Based on Posterior Probability Features," <i>In Proceedings of Eurospeech</i> , 4 pages, Budapest (1999).
		GERSHO, A., "Advances in Speech and Audio Compression", <i>Proceedings of the IEEE</i> , Vol. 82(6):900-918 (June 1994).
		GERSHO, A., et al., "Vector Quantization and Signal Compression", Dordrecht, Netherlands,: <i>Kluwer Academic Publishers</i> , 1992, xxii+732pp.
		Gerson et al., "Vector Sum Excited Linear Prediction (VSELP) Speech Coding at 8 KBPS," CH2847-2/90/0000-0461 IEEE, pp. 461-464 (1990).
		HARDWICK, J.C.; LIM, J.S., "A 4.8 KBPS Multi-Brand Excitation Speech Coder", <i>ICASSP 1988 International Conference on Acoustics, Speech, and Signal</i> , New York, NY, USA, 11-14 April 1988,: <i>IEEE</i> , Vol. 1, pp. 374-377.
		HOUTGAST, T., et al., "The Modulation Transfer Function in Room Acoustics As A Predictor or Speech Intelligibility," <i>Acustica</i> , Vol. 23, pp. 66-73 (1973).
		ITU-T, G.722.1 (09/99), Series G: Transmission Systems and Media, Digital Systems and Networks, "Coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss.
M		ITU-T, "ITU-T Recommendation G.722, General Aspects of Digital Transmission Systems – Terminal Equipments 7 kHz Audio - Coding within 64 kbit/s," 75 pp. (1988).

EXAMINER SIGNATURE: *MML*

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mo		ITU-T, "ITU-T Recommendation G.722.1, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss," 26 pp. (1999).
		ITU-T, "ITU-T Recommendation G.722.1 – Corrigendum 1, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss," 9 pp. (2000).
		ITU-T, "ITU-T Recommendation G.722.1 Annex A, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss, Annex A: Packet format, capability identifiers and capability parameters" 9 pp. (2000).
		ITU-T, "ITU-T Recommendation G.722.1 Annex B, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Coding at 24 and 32 kbit/s for hands-free operation in systems with low frame loss, Annex B: Floating-point implementation for G.722.1" 9 pp. (2000).
		ITU-T, "ITU-T Recommendation G.722.2, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB)," 71 pp. (2003).
		ITU-T, "ITU-T Recommendation G.722.2 Erratum 1, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB)," 1 p. (2004).
m		ITU-T, "ITU-T Recommendation G.722.2 Annex A, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex A: Comfort noise aspects," 14 pp. (2002).

EXAMINER SIGNATURE: <i>mm</i>	DATE CONSIDERED: 9/21/07
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mo		ITU-T, "ITU-T Recommendation G.722.2 Annex B, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex B: Source Controlled Rate Operation," 13 pp. (2002).
		ITU-T, "ITU-T Recommendation G.722.2 Annex B Erratum 1, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex B: Source Controlled Rate Operation," 1 p. (2003).
		ITU-T, "ITU-T Recommendation G.722.2 Annex C Erratum 1, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex C: Fixed-point C-code," 2 pp. (2004).
		ITU-T, "ITU-T Recommendation G.722.2 Annex D, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex D: Digital test sequences," 13 pp. (2003).
		ITU-T, "ITU-T Recommendation G.722.2 Annex E, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex E: Frame Structure," 27 pp. (2002).
		ITU-T, "ITU-T Recommendation G.722.2 Annex E Corrigendum 1, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex E: Frame Structure," 1 p. (2003).
m		ITU-T, "ITU-T Recommendation G.722.2 Annex F, Series G: Transmission Systems and Media, Digital Systems and Networks. Digital terminal equipments – Coding of analogue signals by methods other than PCM – Wideband coding of speech at around 16 kbit/s using Adaptive Multi-Rate Wideband (AMR-WB), Annex F: AMR-WB using in H.245," 10 pp. (2002).

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M		ITU-T, "ITU-T Recommendation G.723.1, General Aspects of Digital Transmission Systems, Dual Rate Speech Coder for Multimedia Communications Transmitting at 5.3 and 6.3 kbit/s," 31 pp. (1996).
		ITU-T, "ITU-T Recommendation G.723.1 Annex A, Series G: Transmission Systems and Media, Digital transmission systems – Terminal Equipments – Coding of analogue signals by methods other than PCM, Dual Rate Speech Coder for Multimedia Communications Transmitting at 5.3 and 6.3 kbit/s, Annex A: Silence compression scheme," 21 pp. (1996).
		ITU-T, "ITU-T Recommendation G.723.1 Annex B, Series G: Transmission Systems and Media, Digital transmission systems – Terminal Equipments – Coding of analogue signals by methods other than PCM, Dual Rate Speech Coder for Multimedia Communications Transmitting at 5.3 and 6.3 kbit/s, Annex B: Alternative specification based on floating point arithmetic," 8 pp. (1996).
		ITU-T, "ITU-T Recommendation G.723.1 Annex C, Series G: Transmission Systems and Media, Digital transmission systems – Terminal Equipments – Coding of analogue signals by methods other than PCM, Dual Rate Speech Coder for Multimedia Communications Transmitting at 5.3 and 6.3 kbit/s, Annex C: Scalable channel coding scheme for wireless applications," 23 pp. (1996).
		ITU-T, "ITU-T Recommendation G.728, General Aspects of Digital Transmission Systems; Terminal Equipment Coding of Speech at 16 kbit/s Using Low-Delay Code Excited Linear Prediction," 65 pp. (1992).
		ITU-T, "ITU-T Recommendation G.728 Annex G, General Aspects of Digital Transmission Systems; Terminal Equipment Coding of Speech at 16 kbit/s Using Low-Delay Code Excited Linear Prediction, Annex G: 16 kbit/s Fixed Point Specification," 67 pp. (1994).
		ITU-T, "ITU-T Recommendation G.728 Annex G Corrigendum 1, Series G: Transmission Systems and Media, Digital Systems and Networks, Digital Transmission Systems; Terminal Equipment Coding of Analogue Signals by methods other than PCM, Coding of speech at 16 kbit/s Using Low-Delay Code Excited Linear Prediction, Annex G: 26 kbit/s Fixed Point Specification – Corrigendum 1," 11 pp. (2000).
M		ITU-T, "ITU-T Recommendation G.728 Annex H, Series G: Transmission Systems and Media, Digital Systems and Networks, Digital Transmission Systems; Terminal Equipment Coding of Analogue Signals by methods other than PCM, Coding of speech at 16 kbit/s Using Low-Delay Code Excited Linear Prediction, Annex H: Variable bit rate LD-CELP operation mainly for DCME at rates less than 16 kbit/s," 19 pp. (1999).

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ne		ITU-T, "ITU-T Recommendation G.728 Annex I, Series G: Transmission Systems and Media, Digital Systems and Networks, Digital Transmission Systems; Terminal Equipment Coding of Analogue Signals by methods other than PCM, Coding of speech at 16 kbit/s Using Low-Delay Code Excited Linear Prediction, Annex I: Frame or packet loss concealment for the LD-CELP decoder," 25 pp. (1999).
		ITU-T, "ITU-T Recommendation G.728 Annex J, Series G: Transmission Systems and Media, Digital Systems and Networks, Digital Transmission Systems; Terminal Equipment Coding of Analogue Signals by methods other than PCM, Coding of speech at 16 kbit/s Using Low-Delay Code Excited Linear Prediction, Annex J: Variable bit-rate operation of LD-CELP mainly for voiceband-data applications in DCME," 40 pp. (1999).
		ITU-T, "ITU-T Recommendation G.729, Coding of Speech at 8 kbit/s Using Conjugate-Structure Algebraic-Code-Excited Linear-Prediction (CS-ACELP)," 39 pp. (1996).
		Kabal et al., "Adaptive Postfiltering for Enhancement of Noisy Speech in the Frequency Domain," CH 3006-4/91/0000-0312 IEEE, pp. 312-315.
		KEMP, D.P.; COLLURA J.S., ; TREMAIN, T.E., "Multi-Frame Coding of LPC Acoustics, Speech, and Signal Processing, Toronto, Ont., Canada, 14-17 May 1991; New York, N.Y. USA, <i>IEEE</i> , 1991, Vol. 1, pp. 609-612.
		Kroon et al., "Quantization Procedures for the Excitation of Celp Coders," CH2396-0/87/0000-1649 IEEE, pp. 1649-1652 (1987).
		LEBLANC, W.P., et al., "Efficient Search and Design Procedures for Robust Multi-Stage VQ of LPC Parameters for 4KB/S Speech Coding". In <i>IEEE Trans. Speech &amp; Audio Processing</i> , Vol. 1, pp. 272-285, (October 1993).
		Lefebvre, et al., "High quality coding of wideband audio signals using transform coded excitation (TCS)," April 1994, 1994 IEEE International Conference on Acoustics, Speech, and Signal Processing, Vol. 1, pp. I/193-I/196.
		Lefebvre et al., "Spectral Amplitude Warping (SAW) for Noise Spectrum Shaping in Audio Coding," <i>IEEE</i> , pp. 335-338 (1997).
		Liang, et al., "Adaptive Payout Scheduling and Loss Concealment for Voice Communication Over IP Networks," <i>IEEE Transactions on Multimedia</i> , Vol. 5, No. 4, pp. 532-543 (2003).
m		MCAULAY, "Sine-Wave Amplitude Coding at Low Data Rates, <i>Advances in Speech Coding</i> ," <i>Kluwer Academic Pub.</i> , pp. 203-214, 1991.

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M		MCCREE, et al., "A 2.4 KBIT/S MELP Coder Candidate for the New U.S. Federal Standard", <i>1996 IEEE International Conference on Acoustics, Speech, and Signal Processing Conference Proceedings</i> , Atlanta, GA (Cat. No. 96CH35903), Vol. 1, pp. 200-203, 7-10 May 1996.
		MCCREE, A.V., et al., "A Mixed Excitation LPC Vocoder Model for Low Bit Rate Speech Coding", <i>IEEE Transaction on Speech and Audio Processing</i> , Vol. 3(4):242-250 (July 1995).
		MOUY, B. et al., "Nato Stanag 4479: A Standard for An 800 BPS Vocoder and Channel Coding In HF-ECCM System", <i>1995 International Conference on Acoustics, Speech, and Signal Processing Conference Proceedings</i> , Detroit MI, USA, 9-12 May 1999; New York, NY, USA: <i>IEEE</i> , 1995, Vol. 1, pp. 480-483.
		MOUY, B.M.; De La NOURE, P.E., "Voice Transmission at a Very Low Bit Rate on A Noisy Channel: 800 BPS Vocoder with Error Protection to 1200 BPS", <i>ICASSP-92: 1992 IEEE International Conference on Acoustics, Speech, and Signal</i> , San Francisco, CA, USA, 23-26 March 1992, New York, NY, USA: <i>IEEE</i> , 1992 Vol. 2, pp. 149-152.
		Mustapha et al., "An Adaptive Post-Filtering Technique Based on the Modified Yule-Walker Filter," <i>ICASSP-1999</i> , 4 pp. (1999).
		NISHIGUCHI, L.; IJIMA, K.; MATSUMOTO, J., "Harmonic Vector Excitation Coding of Speech at 2.0 KPS", <i>1997 IEEE Workshop on Speech coding for telecommunication proceedings</i> , Pocono Manor, PA, USA, 7-10 September 1997, New York, NY, USA: <i>IEEE</i> , 1997, pp. 39-40.
		NOMURA, T.; IWADARE, M.; SERIZAWA, M.; OZAWA, K., "a Bitrate and Bandwidth Scalable Celp Coder", <i>ICASSP 1998 International Conference on Acoustics, Speech, and Signal</i> , Seattle, WA, USA, 12-15 May 1998, <i>IEEE</i> , 1998, Vol. 1, pp. 341-344.
		Ramjee et al., "Adaptive Payout Mechanisms for Packetized Audio Applications in Wide-Area Networks," 0743-166X/94 <i>IEEE</i> , pp. 680-688 (1994).
		S.A. Ramprashad, "A Multimode Transform Predictive Coder (MTPC) for Speech and Audio," in <i>Proc. IEEE Workshop on Speech Coding</i> , pp. 10-12, 1999.
		Salami, et al., "A wideband codec at 16/24 kbit/s with 10 ms frames," <i>Sept. 1997, 1997 Workshop on Speech Coding for Telecommunications</i> , pp. 103-104.
M		SAUNDERS, J., "Real Time Discrimination of Broadcast Speech/Music," <i>Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , Vol. 2, pp. 993-996 (May 1996).

EXAMINER SIGNATURE: *MMCh*DATE CONSIDERED: *2/21/07*

\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Attorney Docket Number	3382-67640-01
Application Number	10/816,466
Filing Date	March 31, 2004
First Named Inventor	Wang
Art Unit	2641
Examiner Name	Not yet assigned

Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
MB		SCHEIRER, E., et al., "Construction and Evaluation of a Robust Multifeature Speech/Music Discriminator," <i>In Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , Vol. 2, pp. 1331-1334, (April 1997).
		J. Schnitzler, J. Eggers, C. Erdmann and P. Vary, "Wideband Speech Coding Using Forward/Backward Adaptive Prediction with Mixed Time/Frequency Domain Excitation," in Proc. IEEE Workshop on Speech Coding, pp. 3-5, 1999.
		Schroeder et al., "Code-Excited Linear Prediction (CELP): High-Quality Speech at Very Low Bit Rates," CH2118-8/85/0000-0937 IEEE, pp. 937-940 (1985).
		Sreenan et al., "Delay Reduction Techniques for Playout Buffering," IEEE Transactions on Multimedia, Vol. 2, No. 2, pp. 88-100 (2000).
		SUPPLEE, Lyn M. et al., "MELP: THE NEW FEDERAL STANDARD AT 2400 BPS", <i>IEEE 1997</i> , pp. 1591-1594 in lieu of the following which we are unable to obtain <u>Specification for the Analog to Digital Conversation of Voice by 2,400 Bit/Second Mixed Excitation Linear Prediction FIPS</u> , Draft document of proposed Federal Standard, dated <u>May 28, 1998</u> .
		L. Tancerel, R. Vesa, V.T. Ruoppila and R. Lefebvre, "Combined Speech and Audio Coding by Discrimination," in Proc. IEEE Workshop on Speech Coding, pp. 154-156, 2000.
		Tasaki et al., "Post Noise Smoother to Improve Low Bit Rate Speech-Coding Performance," 0-7803-5651-9/99 IEEE, pp. 159-161 (1999).
		Tasaki et al., "Spectral Postfilter Design Based on LSP Transformation," 0-7803-4073-6/97 IEEE, pp. 57-58 (1997).
		TZANETAKIS, G., et al., "Multifeature Audio Segmentation for Browsing and Annotation," <i>Proc. IEEE Workshop on Applications of Signal Processing to Audio and Acoustics</i> , New Paltz, NY, pp. 103-106 (October 1999).
✓		A. Ubale and A. Gersho, "Multi-Band CELP Wideband Speech Coder," Proc. IEEE Int. Conf. on Acoustics, Speech and Signal Processing, Munich, pp. 1367-1370.
W		WANG, Tian et al., "A 1200 BPS Speech Coder Based on MELP", <i>in Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing</i> , June 2000, pp. 1375-1378.

EXAMINER  
SIGNATURE:

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9/22/07

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

Attorney Docket Number	3382-67640
Application Number	Not yet assigned
Filing Date	March 31, 2004
First Named Inventor	Wang
Art Unit	Not yet assigned
Examiner Name	Not yet assigned

## **U.S. PATENT DOCUMENTS**

NOTE: If this application was filed after June 30, 2003, copies of United States patents and United States published patent applications do not have to be provided to the Patent Office. This requirement of 37 C.F.R. § 1.98(a)(2)(i) has been waived by the United States Patent and Trademark Office pursuant to the Official Gazette Notice on August 5, 2003 (1276 OG 55).

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
<i>no</i>		5,835,495	11.10.1998	Ferriere
		6,029,126	2.22.2000	Malvar
		6,041,345	3.21.2000	Levi et al.
		6,226,606	5.1.2001	Acero
		6,289,297	9.11.2001	Bahl
		6,292,834	9.18.2001	Ravi et al.
		6,317,714	11.13.2001	Del Castillo et al.
		6,392,705	5.21.2002	Chaddha
		6,438,136	8.20.2002	Bahl
		6,460,153	10.1.2002	Chou et al.
		6,499,060	12.24.2002	Wang et al.
		6,505,152	1.7.2003	Acero
		6,621,935	9.16.2003	Xin et al.
		6,647,366	11.11.2003	Wang et al.
		6,658,383	12.2.2003	Koishida et al.
<i>m</i>		6,693,964	2.17.2004	Zhang et al.

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	<b>Attorney Docket Number</b>	3382-67640
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	<b>First Named Inventor</b>	Wang
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**U.S. PATENT APPLICATION DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
<i>MB</i>		20030004718	1.2.2003	Rao
		20030009326	1.9.2003	Wang et al.
		20030016630	1.23.2003	Vega-Garcia et al.
		20030101050	5.29.2003	Khalil et al.
		20030115050	6.19.2003	Chen et al.
		20030115051	6.19.2003	Chen et al.
<i>MB</i>		20030135631	7.17.2003	Li et al.

Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS
<i>MB</i>		ITU-T, "ITU-T Recommendation G.729, Coding of Speech at 8 kbit/s Using Conjugate-Structure Algebraic-Code-Excited Linear-Prediction (CS-ACELP)," 35 pp. (1996).
		Andersen et al., "ILBC - a Linear Predictive Coder with Robustness to Packet Losses," Proc. IEEE Workshop on Speech Coding, 2002, pp. 23-25 (2002).
		Erdmann et al., "An Adaptive Multi Rate Wideband Speech Codec with Adaptive Gain Re-quantization," Proc. IEEE Workshop on Speech Coding, 2000, pp. 145-147 (2000).
		Erhart et al., "A speech packet recovery technique using a model based tree search interpolator," Proc. 1993 IEEE Workshop on Speech Coding for Telecommunications, pp. 77-78 (1993).
		Feldbauer et al., "Speech Coding Using Motion Picture Compression Techniques," Proc. IEEE Workshop on Speech Coding, 2002, pp. 47-49 (2002).
		Fingscheidt et al., "Joint Speech Codec Parameter and Channel Decoding of Parameter Individual Block Codes (PIBC)," Proc. 1999 IEEE Workshop on Speech Coding, pp. 75-77 (1999).
<i>MB</i>		Fout, "Media Support in the Microsoft Windows Real-Time Communications Client," 6 pp. [Downloaded from the World Wide Web on February 26, 2004.]

<b>EXAMINER SIGNATURE:</b> <i>MM/ML</i>	<b>DATE CONSIDERED:</b> 9/21/07
* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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		First Named Inventor	Wang
		Art Unit	Not yet assigned
		Examiner Name	Not yet assigned
Examiner's Initials*	Cite No. (optional)	<b>OTHER DOCUMENTS</b>	
mo		Heinen et al., "Robust Speech Transmission Over Noisy Channels Employing Non-linear Block Codes," Proc. 1999 IEEE Workshop on Speech Coding, pp. 72-74 (1999).	
		Ikeda et al., "Error-Protected TwinVQ Audio Coding at Less Than 64 kbit/s/ch," Proc. 1995 IEEE Workshop on Speech Coding for Telecommunications, pp. 33-34 (1995).	
		Johansson et al., "Bandwidth Efficient AMR Operation for VoIP," Proc. IEEE Workshop on Speech Coding, 2002, pp. 150-152 (2002).	
		Koishida et al., "Enhancing MPEG-4 CELP by Jointly Optimized Inter/Intra-frame LSP Predictors," Proc. IEEE Workshop on Speech Coding, 2000, pp. 90-92 (2000).	
		Kubin et al., "Multiple-Description Coding (MDC) of Speech with an Invertible Auditory Model," Proc. 1999 IEEE Workshop on Speech Coding, pp. 81-83 (1999).	
		Lakaniemi et al., "AMR and AMR-WB RTP Payload Usage in Packet Switched Conversational Multimedia Services," Proc. IEEE Workshop on Speech Coding, 2002, pp. 147-149 (2002).	
		Makinen et al., "The Effect of Source Based Rate Adaptation Extension in AMR-WB Speech Codec," Proc. IEEE Workshop on Speech Coding, 2002, pp. 153-155 (2002).	
		Morinaga et al., "The Forward-Backward Recovery Sub-Codec (FB-RSC) Method: A Robust Form of Packet-Loss Concealment for Use in Broadband IP Networks," Proc. IEEE Workshop on Speech Coding, 2002, pp. 62-64 (2002).	
		Nomura et al., "Voice Over IP Systems with Speech Bitrate Adaptation Based on MPEG-4 Wideband CELP," Proc. 1999 IEEE Workshop on Speech Coding, pp. 132-134 (1999).	
		Ozawa et al., "Study and Subjective Evaluation on MPEG-4 Narrowband CELP Coding Under Mobile Communication Conditions," Proc. 1999 IEEE Workshop on Speech Coding, pp. 129-131 (1999).	
		Rahikka et al., "Error Coding Strategies for MELP Vocoder in Wireless and ATM Environments," IEEE Seminar on Speech Coding for Algorithms for Radio Channels, pp. 8/1-8/3 (2000).	
		Rahikka et al., "Optimized Error Correction of MELP Speech Parameters Via Maximum A Posteriori (MAP) Techniques," Proc. 1999 IEEE Workshop on Speech Coding, pp. 78-80 (1999).	
		Salami et al., "A robust transformed binary vector excited coder with embedded error-correction coding," IEEE Colloquium on Speech Coding, pp. 5/1-5/6 (1989).	
m		Salami et al., "The Adaptive Multi-Rate Wideband Codec: History and Performance," Proc. IEEE Workshop on Speech Coding, 2002, pp. 144-146 (2002).	

EXAMINER SIGNATURE: <i>mmc</i>	DATE CONSIDERED: 9/21/07
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